

LISTING OF CLAIMS

1. (Previously presented) A process for removal of SO_2 in off-gases having a temperature of $30\text{-}150^\circ\text{C}$ and containing $0.001\text{-}1$ vol % SO_2 in which the SO_2 is oxidised to H_2SO_4 without the use of an absorption tower by spraying an aqueous solution of H_2O_2 into the off-gas upstream of an aerosol filter removing the produced sulphuric acid from the off-gas.
2. (Original) A process as in claim 1, in which the off-gas is cooled by evaporation of the water comprised in the solution being sprayed into the off-gas upstream of the filter.
3. (Previously presented) A process as in claim 1, in which a wet electrostatic separator is used in place of an aerosol filter.
4. (Previously presented) A process according to claim 1 or 2, wherein the off-gas has a temperature of $50\text{-}120^\circ\text{C}$ and contains $100\text{-}1000$ ppm SO_2 .